

# ECLIPSE

Analog Solid State UHF Transmitter  
5kW to 40kW and beyond



**ECLIPSE 20kW**

## ECLIPSE: Performance that Stands in Front of All Others

*Take Notice. Magnum inspired. Performance renowned.* Eclipse Series is a rugged and reliable Universal Analog UHF Solution for broadcast standards worldwide.

LARCAN's Eclipse Series captures progress and defines possibility - delivering unsurpassed performance through state-of-the-art technology. Integrating the award winning innovations of our Magnum Series of digital transmitters, Eclipse takes technical innovation to new levels for analog.

Eclipse. The Dawn of a New World Standard of Performance – Choose 5kW to 40kW and beyond!

- 100% Solid State Analog UHF Transmitter
- Broadband Amplifier (No tuning Adjustments)
- Customizable Cooling System
- Extensive Monitoring and Diagnostics
- Cost Effective, High Performance
- Reliable and User Friendly
- Fully Regulated Power Supplies

# ECLIPSE

Analog Solid State UHF Transmitter

## ECLIPSE – Take Notice. An Innovative Universal Analog Solution

Designed for broadcast standards worldwide, Eclipse is the outcome of engineering at its best. A solid and superior analog design – Eclipse is the best fit for broadcasters who want the ultimate in performance.

Developed from 'start to success' with the same renowned LARCAN quality of past generations – the Eclipse melds together proven technology with rugged performance and rich delivery.

Innovative features include our broadband LDMOS amplifiers, which require no tuning and offer the reliability you've come to expect from LARCAN - every time.

Looking for a Better Fit?  
*We hear you. Loud and clear.*



### ECLIPSE 20kW Specifications

#### NTSC Transmitter

Output	Power Frequency Output Connector	20kW Visual / 2kW Aural 470-806 MHz 4 1/16 EIA Unflanged
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Input	Input Impedance Input Level	75 ohms, unbalanced 0.5 to 2.0 V p-p
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Performance	-3.58 MHz -1.25 MHz and lower Carrier to -0.5 MHz Carrier to +200 kHz Carrier to +4.0 MHz 4.0 MHz to 4.18 MHz 4.75 MHz to 7.75 MHz Frequency Stability Harmonic Radiation	-42 dB -20 dB ±0.5 dB 0 dB (ref) ±0.5 dB +0.5 -2.5 dB -40 dB ±150 Hz -80 dB
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Video	Differential Phase Differential Gain Variation with Brightness 2T Pulse Response ICPM Video Noise	±3° ±5% ±0.5 dB 1.5% ±3° -55 dB
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Audio	FM Noise AM Noise Distortion Response	-62 dB -50 dB 0.5% ±0.5 dB
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General	Power Requirements Voltage Temp Range	108kW (est.) Black Picture 120/208 VAC 50/60Hz 0 to 40° C
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Dimensions	Height Width Depth	78.5 inches 76 inches 44 inches
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The Eclipse Series PA Module design combines the expertise and experience of our legendary M Series transmitters with an innovative new stripline coupler design (patent pending). The result is innovation – unprecedented levels of power density and superior linearity.

